

Logistics Research & Engineering Directorate



*Providing logistics support
to our warfighters*



Alan Galonski
Chief, Future Concepts Division



Logistics R&E Directorate Support to Operations in Iraq



M7 Forward Repair System Heavy and Body EOD Vehicle - Critical to Operation Iraqi Freedom

**Contact Maintenance Truck
Estimated 700 deployed to Afghanistan and Iraq
Rock Island Arsenal producing 10 per month**



Accelerated fielding and provided 16 prototype Configured Load Building Tool laptops and trained Stryker BCT deploying to Iraq



Captured Enemy Ammunition

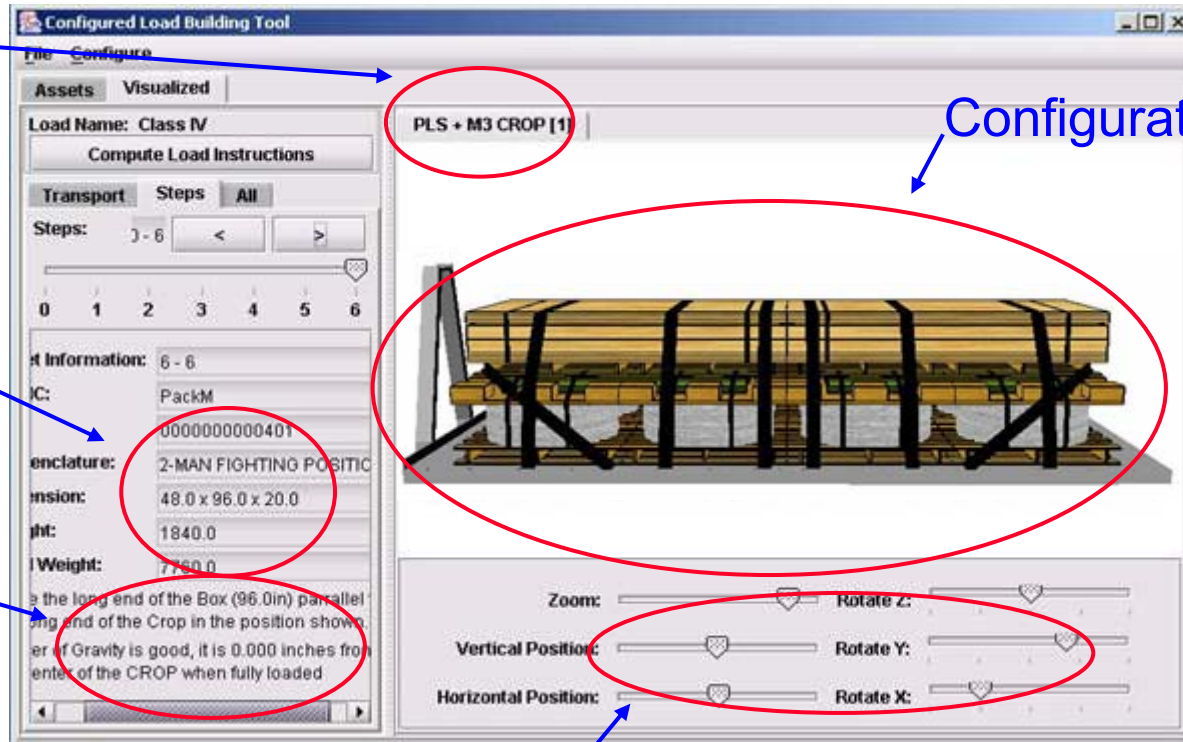
- Provided cost estimate and sources of supply info to Corps of Engineers for 30,000 pallets & banding materials for ammo consolidation & handling
- Pursuing modified version of ASIS MHP to provide Iraqi Army ammo stock visibility and surveillance
- LRED leading effort on future reconstitution of ammo for Iraqi Defense Forces

Configured Load Building Tool

Platform Type

Weight and
Cube of
Finished Load

Load
Assembly
Instructions

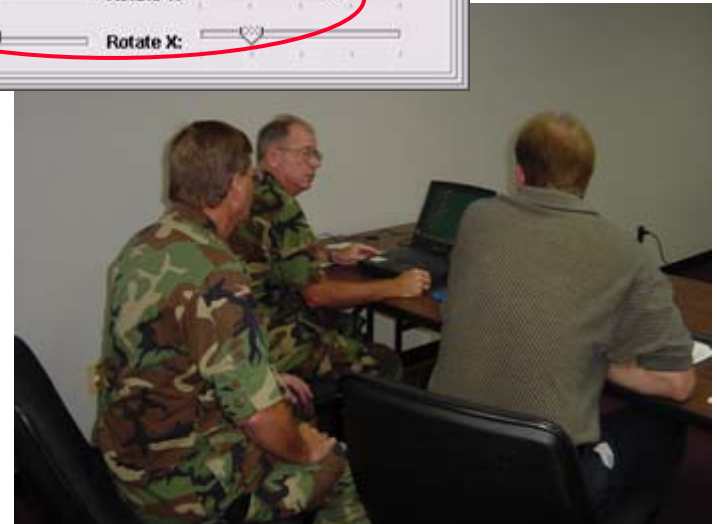


Configuration of Load

User Selectable 3-D Viewing Angle and Zoom

Status:

- Fielded with Stryker Brigade in Mid-East
- Integrating with SAAS STAMIS for Class V
- Incorporating process for irregular shaped objects - July 05
- Delivery of Full Operational Capability (FOC) – Sept 05



Logistics R&E Directorate Support to Operations in Iraq



Deploying Dec 03 to provide new equipment training and ensure soldiers understand safety issues involved with firing AT4-CS in confined spaces



Providing training on various non-lethal munitions systems to soldiers deploying from Ft. Dix NJ to SWA



Leading numerous malfunction investigations which could impact deployed troops in Iraq



Determined the packaging and palletization materials for 33K STONS of retrograde ammunition



Deployed to Baghdad as part of Rapid Equipping Force to train 101st and 82nd Airborne and 2nd and 3rd BCTs on Gunfire Detection System

New Equipment Training (NET)

Gunfire Detection System

Units trained in Mosul
101st Airborne Division
8 classes, 74 students



AT4 CS HP

Units trained in Afghanistan
3/3 SFG, 10th INF DIV 1st BDE, 2-22 INF,
C Co LRSD Batt and 1st 501st PIR.
4 classes, 63 students



Weapons Optics

M-68 CCO, ACOG,
back-up iron sight, M-145 MGO
Units trained in Camp Victory
1 class, 25 students



Satellite New Equipment Training Center

- **24-hour *on-site* satellite transmission and downlink**
- **CONUS and OCONUS locations to include Southeast Asia**



**Portable Field-Deployable
Satellite System**



**Rapid capability to conduct new equipment training
in response to warfighter needs**

New capability to enable the Warfighter to reach back to ARDEC subject matter experts for training and to rapidly resolve technical issues

Logistics R&E Directorate Support to Operations in Afghanistan



“The ASIS (Ammo Surveillance Information System) is Gold in Afghanistan”...Quality Assurance Surveillance Ammunition Specialist (QASAS) responsible to ensure ammo is serviceable in Afghanistan

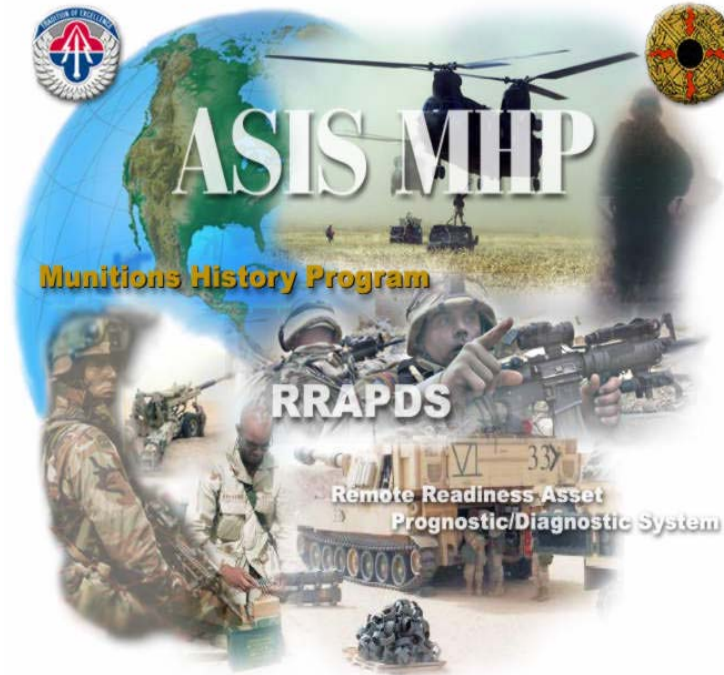
1000 containers provided rapidly to ship items to Afghanistan “Wow - you guys work fast” - Capt Jansen, Special Ops Support Battalion



Assisted with numerous packaging and palletization issues. Example:improved packaging for substitute 5.56mm training rounds

Ammunition Surveillance Information System Munitions History Program (ASIS-MHP)

- Internet accessible inspection application
- Collects & communicates munitions readiness status directly from field to command
- Enables authorized users worldwide data access via the internet



Team Development effort:

- AMCOM
- ARDEC ATS Div
- ARDEC, Future Concepts Division
- Defense Ammo Center (DAC)
- QASAS Surveillance Mod Team members
- Jacobs Sverdrup
- JMC

Fielded at: Arifjan Kuwait, Blue Grass Army Depot, Crane Army Ammunition Activity, Letterkenny Army Depot, MOTSU Prepo, Picatinny, Tooele Army Depot & USARPAC, Hawaii

- Initial fielding 2003
- 130 worldwide registered users
- Round the clock system operation
- 19,000 inspections successfully entered into ASIS MHP
- Next Stop - Anniston Army Depot – June 2005

Ammunition Packaging



M8 Bandoleer



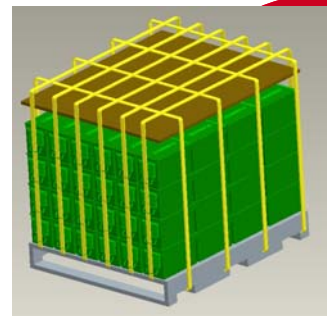
Commercial Blister Pack



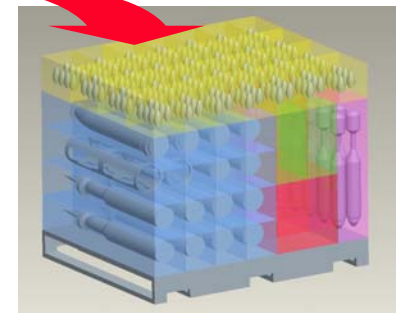
Wirebound Overpack



Commercial PackPlus



Single item pallets



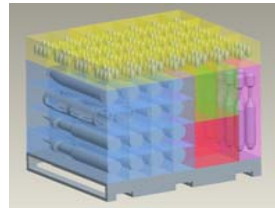
Nestable Packaging

**The time has come....
to take Ammunition Packaging
to the next step:**

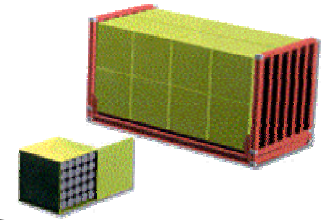
- Examine units of issue
- Automation friendly packaging configurations
- Reduced layers
- Rapid reconfiguration and nesting for configured loads
- Insensitive munitions enhancement
- Integration of UID and RFID technologies

Joint Modular Intermodal Distribution System (JMIDS) ACTD

Joint Service packages and platforms with integrated asset tracking to enable the efficient and seamless movement of supplies through the distribution system



Joint Modular Intermodal Container (JMIC)



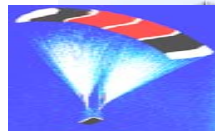
Joint Modular Intermodal Platform (JMIP)



Embedded Automated Information Tracking

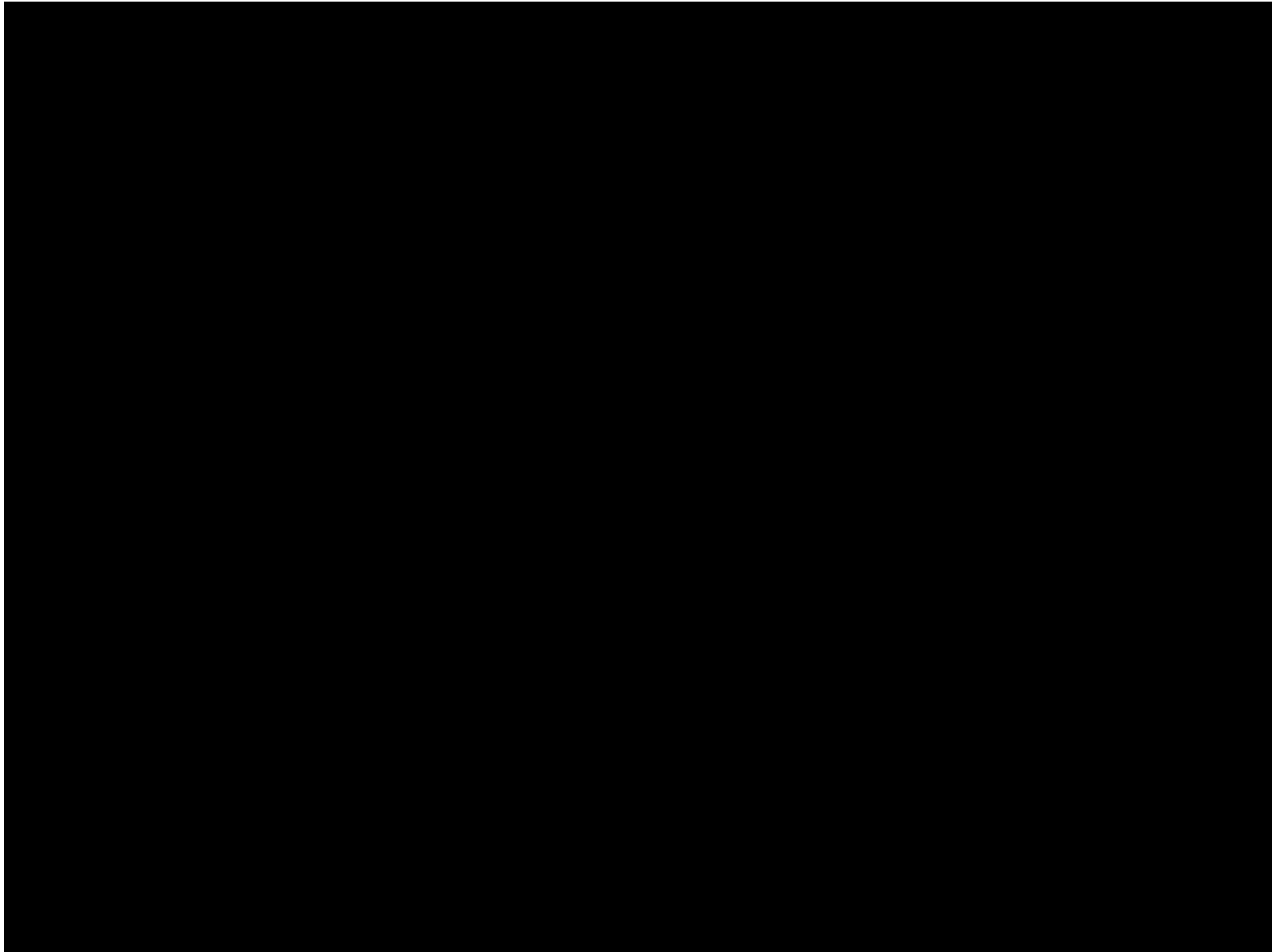
Participants:

- Lead Service: Army
- Partnering Service: USN
- Sponsoring CoCOM: TRANSCOM
- Technical Manager: ARMY, ARDEC
- Operational Manager: TRANSCOM, J5
- Transition Managers: Service PEOs / PMs
- DoD Agencies: DLA
- Supporting Services: USMC, USAF
- Supporting CoCOMs: JFCOM



- **Interlocking**
- **Intermodal**
- **Re-configurable**
- **Joint Compatibility**

Joint Modular Intermodal Distribution System (JMIDS) ACTD





Ammunition Adage



A Soldier can survive in Combat



Forever Without Mail



30 Days Without Food



3 Days Without Water



3 Minutes Without Air



But Not One Second Without Ammunition!

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